

U.S. Appln. No. 09/838,484
Reply to Office Action dated November 3, 2005

PATENT
450100-03166

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Previously Presented) A device for managing data objects, comprising:
displaying means for displaying thumbnails representative of data objects;
defining means for defining a focus region that indicates a focus thumbnail subject to processing;
moving means for moving the displayed thumbnails along a predetermined path through the focus region; and
enable/disable means for selectively enabling and disabling the moving means, the displaying means statically displaying a single thumbnail in the focus region when the enable/disable means disables the moving means, the displaying means displaying the thumbnails to move along the predetermined path through the focus region when the enable/disable means enables the moving means;
wherein a shape of the predetermined path is modified based upon a speed with which the thumbnails move through the focus region;
wherein a user is permitted to browse through the displayed thumbnails while remaining data objects are being loaded;
wherein the displaying means further displays an interface portion with a plurality of indicia, and further comprising selection means for selecting one of the indicia of the interface

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portion;

wherein the indicia include a plurality of layout indicia each representing one of a plurality of layouts, the displaying means displaying the thumbnails in relative positions, and the moving means shows moving the thumbnails to the position, in accordance with the layout indicium selected by the selection means; and

when the selection means selects a grid indicium, the displaying means displays the thumbnails in a grid layout with thumbnails aligned with fixed mutual positions in rows and columns;

wherein the moving means, when enabled, moves the thumbnails in the grid layout through the focus region one row at a time in succession, starting from a same end of each successive row.

2. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in partial overlap with sections of each thumbnail exposed, and changes relative position of thumbnails to change exposed sections of thumbnails while the enable/disable means enables the moving means.

3. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in partial overlap, and changes overlapping sections of thumbnails while the enable/disable means disables the moving means.

4. (Canceled)

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5. (Canceled)

6. (Previously Presented) A device for managing data objects, comprising:
displaying means for displaying thumbnails representative of data objects;
defining means for defining a focus region that indicates a focus thumbnail
subject to processing;

moving means for moving the displayed thumbnails along a predetermined path
through the focus region; and

enable/disable means for selectively enabling and disabling the moving means,
the displaying means statically displaying a single thumbnail in the focus region when the
enable/disable means disables the moving means, the displaying means displaying the
thumbnails to move along the predetermined path through the focus region when the
enable/disable means enables the moving means;

wherein a shape of the predetermined path is modified based upon a speed with
which the thumbnails move through the focus region;

wherein a user is permitted to browse through the displayed thumbnails while
remaining data objects are being loaded;

wherein the displaying means further displays an interface portion with a plurality
of indicia, and further comprising selection means for selecting one of the indicia of the interface
portion;

wherein the indicia include a plurality of layout indicia each representing one of a
plurality of layouts, the displaying means displaying the thumbnails in relative positions, and the
moving means shows moving the thumbnails to the position, in accordance with the layout

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indicium selected by the selection means;

wherein the displaying means further displays file names of files containing the data objects of the thumbnails, the displaying means displaying the file names in a pattern that is inverse a pattern formed by the thumbnails.

7. (Previously Presented) A device as claimed in claim 1, wherein:

the displaying means displays the selected layout indicium at a present layout position to indicate presently displayed layout of the thumbnails; and

when the selection means newly selects a layout indicium, the displaying means displays movement of the newly selected layout indicium to the present layout position and movement of a preceding selected layout indicium out of the present layout position.

8. (Previously Presented) A device as claimed in claim 1, wherein:

the layout indicia include a line indicium; and

when the selection means selects the line indicium, the displaying means displays the thumbnails in a line layout with the thumbnails aligned in partial overlap in a line.

9. (Original) A device as claimed in claim 8, wherein the displaying means

displays the thumbnails in the line layout with a reciprocal pivoting motion, the focus thumbnail serving as an unmoving axis of the pivoting movement.

10. (Previously Presented) A device as claimed in claim 1, wherein:

the layout indicia include a circle indicium; and

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when the selection means selects the circle indicium, the displaying means displays the thumbnails in a circle layout with the thumbnails disposed in partial overlap in a circular ring.

11. (Original) A device as claimed in claim 10, wherein, when number of thumbnails exceeds a predetermined number, the displaying means displays a portion of the thumbnails in an arc with a predetermined radius and the moving means sequentially changes displayed thumbnails while enabled.

12. (Canceled)

13. (Previously Presented) A device as claimed in claim 1, wherein:
the displaying means displays the thumbnails in the grid layout in rows having a length that can be completely displayed at once; and
when the enable/disable means enables the moving means, the moving means moves the thumbnails of a single column through the focus region.

14. (Canceled)

15. (Previously Presented) A device as claimed in claim 1, wherein:
the layout indicia include a helix indicium; and
when the selection means selects the helix indicium, the displaying means displays the thumbnails in a helix layout that mimics a side view of a helix by displaying

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thumbnails at a far side of the helix in a smaller scale than thumbnails at a near side of the helix.

16. (Original) A device as claimed in claim 15, wherein the displaying means displays the thumbnails in the helix layout to mimic a helix with a shorter radius when the enable/disable means enables the moving means than when the enable/disable means disables the moving means.

17. (Original) A device as claimed in claim 15, wherein the displaying means displays movement of the thumbnails in the helix layout through the focus region by displaying spiral movement of the helix.

18. (Original) A device as claimed in claim 15, wherein the displaying means displays movement of the thumbnails in the helix layout through the focus region by shifting the helix one pitch distance to move the present focus thumbnail out of the focus region and to move a thumbnail of an adjacent ring of the helix into the focus region.

19. (Previously Presented) A device as claimed in claim 1, wherein, when the selection means selects a new layout indicium that is different from a preceding selected layout indicium, the displaying means repositions the thumbnails into a new layout that corresponds to the new layout indicium while displaying the thumbnails moving toward and into positions of the new layout.

20. (Previously Presented) A device as claimed in claim 1, wherein the

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indicia include a plurality of order indicia each representing one of a plurality of predetermined sequence orders, the displaying means displaying the thumbnails in an order represented by an order indicium selected by the selection means.

21. (Original) A device as claimed in claim 20, wherein:
the displaying means displays the selected order indicium at a present order position to indicate present order of the thumbnails; and
when the selection means newly selects an order indicium, the displaying means displays movement of the newly selected order indicium to the present order position and movement of a preceding selected order indicium out of the present order position.

22. (Original) A device as claimed in claim 20, wherein, when the selection means selects a new order indicium that is different from a preceding selected order indicium, the displaying means repositions the thumbnails according a new order that corresponds to the new order indicium, while displaying movement of the thumbnails into positions appropriate for the new order.

23. (Original) A device as claimed in claim 20, wherein:
the order indicia include a time indicium; and
when the selection means selects the time indicium, the displaying means displays the thumbnails in groups according to when the corresponding data objects were produced.

24. (Original) A device as claimed in claim 20, wherein:

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the order indicia include a time indicium; and
when the selection means selects the time indicium, the displaying means displays the thumbnails separated by distance corresponding to time between when the corresponding data objects were produced.

25. (Previously Presented) A device as claimed in claim 1, wherein the indicia include a plurality of application indicia each representing one of a plurality of applications, and further comprising an application launcher that launches an application that corresponds to the application indicium selected by the selection means.

26. (Original) A device as claimed in claim 1, further comprising further request means for indicating desire for further information on data object that corresponds to the focus thumbnail, the displaying means enlarging display of the focus thumbnail when the further request means indicates a desire for further information.

27. (Original) A device as claimed in claim 26, wherein the displaying means displays application indicia representing software applications when the further information request means indicates a desire for further information on the data object of the focus thumbnail.

28. (Original) A device as claimed in claim 1, wherein the displaying means displays thumbnails of audio data objects for audio contents based on data of the audio data object.

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29. (Original) A device as claimed in claim 28, wherein the displaying means displays thumbnails of audio data objects according to amount of data in the audio data object.

30. (Original) A device as claimed in claim 28, wherein the displaying means displays thumbnails of audio data objects according to content of data in the audio data object.

31. (Original) A device as claimed in claim 1, further comprising:
retrieval means for retrieving data objects from a memory card; and
recognition means for recognizing presence of a memory card and activating the retrieval means when a memory card is present.

32. (Original) A device as claimed in claim 31, wherein the displaying means displays thumbnails one at a time in a sequence that the retrieval means retrieves the data objects from the memory card.

33. (Original) A device as claimed in claim 1, further comprising search means for searching to find thumbnails that meet certain criteria, the displaying means displaying only thumbnails found by the search means.

34. (Original) A device as claimed in claim 1, wherein when the enable/disable means enables the moving means, the moving means determines a target position for each thumbnail, and moves the thumbnails to their respective target positions in an easing-in

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movement.

35. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in a line layout with the thumbnails aligned in partial overlap in a line.

36. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in a circle layout with the thumbnails disposed in partial overlap in a circular ring.

37. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in a grid layout with thumbnails aligned with fixed mutual positions in rows and columns.

38. (Original) A device as claimed in claim 1, wherein the displaying means displays the thumbnails in a helix layout that mimics a side view of a helix by displaying thumbnails at a far side of the helix in a smaller scale than thumbnails at a near side of the helix.

39-40. (Canceled)